

AMENDMENTS TO THE SPECIFICATION

Figure 2A: shows the protein sequence of the ZMC2/F_{ab} light chain (amended) (SEQ ID NO: 1).

Figure 2B: depicts the nucleotide sequence of the open reading frame of the pComb3/ZMC2,F_{ab} vector (light chain) (SEQ ID NO: 2) and its translation into the encoding protein sequence of ZMC2/F_{ab} light chain (cf. also Figure 2A) (SEQ ID NOS: 3-5). Start and stop codons are indicated in bold letters, restriction sites are underlined, and primers sequences are double underlined. The sequence of the pComb3/ZMC2,F_{ab} vector is indicated in italic letters.

Figure 3A: depicts the protein sequence of ZMC2/F_{ab} Heavy chain-His (SEQ ID NO: 6).

Figure 3B: shows the nucleotide sequence of the open reading frame of the pComb3/ZMC2,F_{ab}-His vector (SEQ ID NO: 7) (heavy chain) and its translation into the encoding protein sequence (SEQ ID NOS: 8-9) of the heavy chain of ZMC2/F_{ab} Heavy chain-His (cf. Figure 3A). Start and stop codons are indicated in bold letters, Restriction sites are underlined, and primers sequences are double underlined. The sequence of pComb3/ZMC2,F_{ab}-His vector is indicated in italic letters. The His-tag is indicated by a dotted (.....) line.

Figure 4A: discloses the nucleotide sequence of the high affinity clone ZMC2 ScFv (1C3) SEQ ID NO: 10). The V_L sequence is indicated in bold letters. The V_H sequence is double underlined. The linker in between is indicated in normal letters. The sequence of the vector is indicated in italic letters. The E-tag is indicated by a dotted line. Restriction sites (SfiI and NotI) are underlined, and primers sequences are double underlined.

Figure 4B: shows the translated protein sequence (SEQ ID NO: 11) encoded by the nucleotide sequence of the high affinity clone ZMC2 ScFv (1C3) as shown in Figure 4A. Disclosed is the sequence from V_H until the end of the E-tag.

Figure 5A: depicts the nucleotide sequence of the ZMC2 Heavy chain – Leptin construct (SEQ ID NO: 12). Disclosed is the 1203 bp nucleotide sequence, wherein start and stop codons are indicated in bold letters and restriction sites are underlined. The ZMC2 heavy chain is indicated by a dotted (.....) line, the (G₄S)₄ linker is double underlined. The sequence of Leptin indicated by a (____) line and is the vector is indicated in italic letters. The his tag is indicated by a (____) line.

Figure 5B: shows the translated protein sequence of the ZMC2 Heavy chain – Leptin construct (SEQ ID NO: 13) (cf. Figure 5A). The ZMC2 heavy chain is indicated by a dotted (.....) line, the (G₄S)₄ linker is double underlined. The sequence of Leptin indicated by a single line and is the vector is indicated in italic letters. The his tag is indicated by a (____) line.